Roll No: [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

B.TECH
(SEM V) THEORY EXAMINATION 2021-22
WEB TECHNOLOGY

Time: 3 Hours   *Total Marks: 100*

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1.   **Attempt *all* questions in brief.**   **2 x 10 = 20**
   a.   What is Domain Name System (DNS)?
   b.   Discuss various web project development phases.
   c.   What are the differences between IP packet & Datagrams?
   d.   Write HTML code for inserting image on a web page.
   e.   Name two major protocols for accessing email from servers.
   f.   Define Document Object Model (DOM).
   g.   What is the concept behind client-server computing?
   h.   Expand the term AWT. For what purpose it is being used?
   i.   What do you understand by session tracking
   j.   What is implicit object in JSP?

SECTION B

2.   **Attempt any *three* of the following:**   **10 x 3 = 30**
   a.   Design HTML form for student registration with submit and reset button on it
   b.   Explain CSS and its types with example.
   c.   Explain java script function and write a program to make a calculator using java script.
   d.   What are XML Parsers? Explain the types of parsers with their advantages and disadvantages.
   e.   What are the advantages and drawback of an applet? Write a java program to create an applet and perform event handling on it.

SECTION C

3.   **Attempt any *one* part of the following:**   **10 x 1 = 10**
   (a)   Create an HTML page named as "table.html" to display your class time table.
   (b)   Explain Enterprise Java Bean in detail and explain its types. Create a message driven java bean.

4.   **Attempt any *one* part of the following:**   **10 x 1 = 10**
   (a)   What is JDBC? Explain the driver used in JDBC. Write JDBC program to insert and display the record of employees using prepared statement.
   (b)   Explain string handling and event handling in java.

5.   **Attempt any *one* part of the following:**   **10 x 1 = 10**
   (a)   What is the difference between Session and Cookies? Write a servlet program for servlet login and logout using cookies.
   (b)   What is XML? Create a XML document of 10 students of third year CSE. Add their roll number, marks obtained in 5 subjects, total marks and percentage.

6.   **Attempt any *one* part of the following:**   **10 x 1 = 10**
   (a)   Discuss Servlet and its life cycle in detail. How do you create a servlet?
   (b)   Explain JSP Architecture and explain the JSP Processing in detail.

7.   **Attempt any *one* part of the following:**   **10 x 1 = 10**
   (a)   Explain Internet Addressing. How will you identify IP Class?
   (b)   How exceptions are handled in java? Explain in detail with examples.